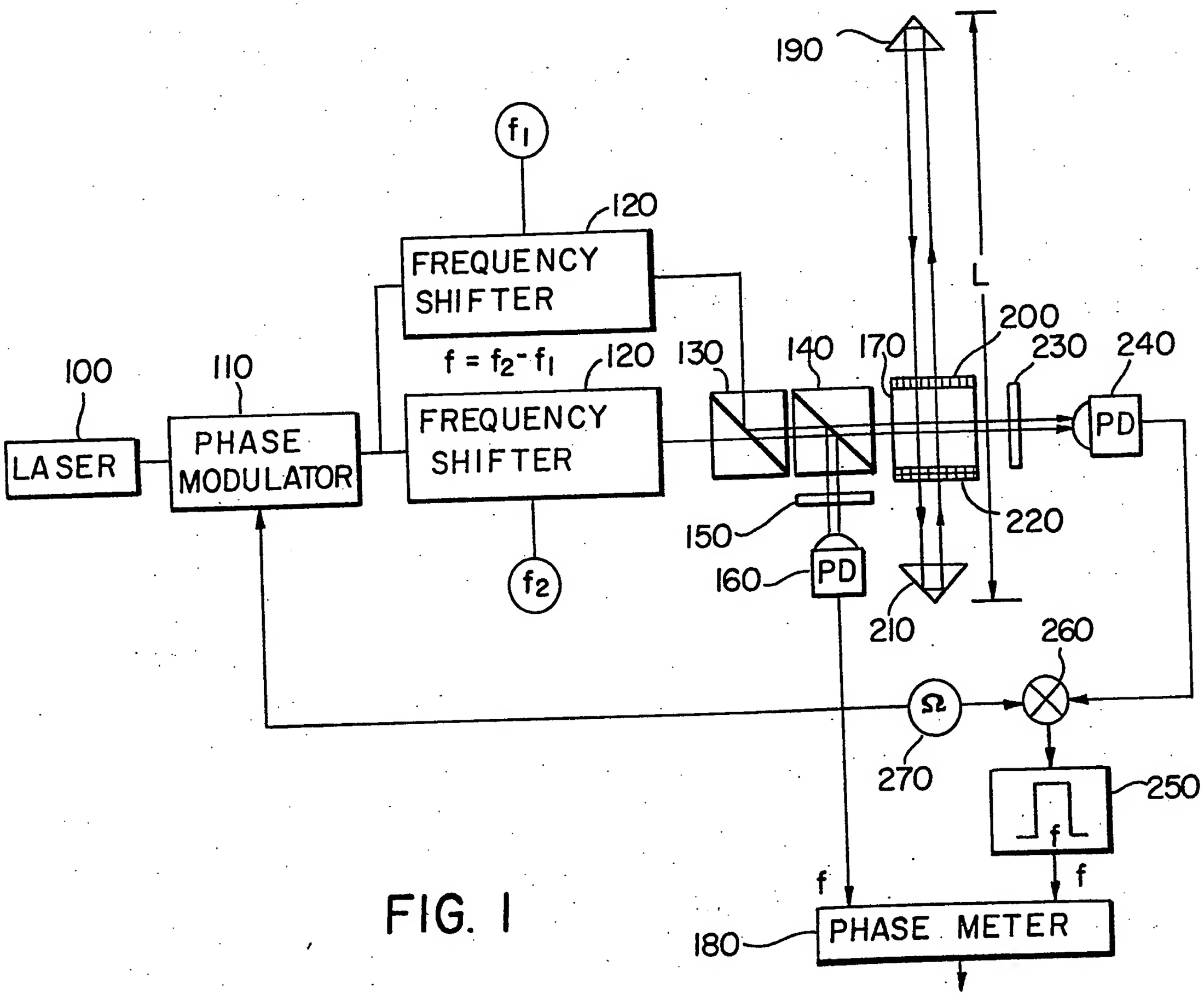
190
L
f1
120
FREQUENCY SHIFTER
f = f2 - f1
120
100
110
130
140
170
200
230
240
LASER
PHASE MODULATOR
FREQUENCY SHIFTER
PD
220
150
160
PD
210
260
Ω
270
250
f
f
f
PHASE METER
180
f2

FIG. 1

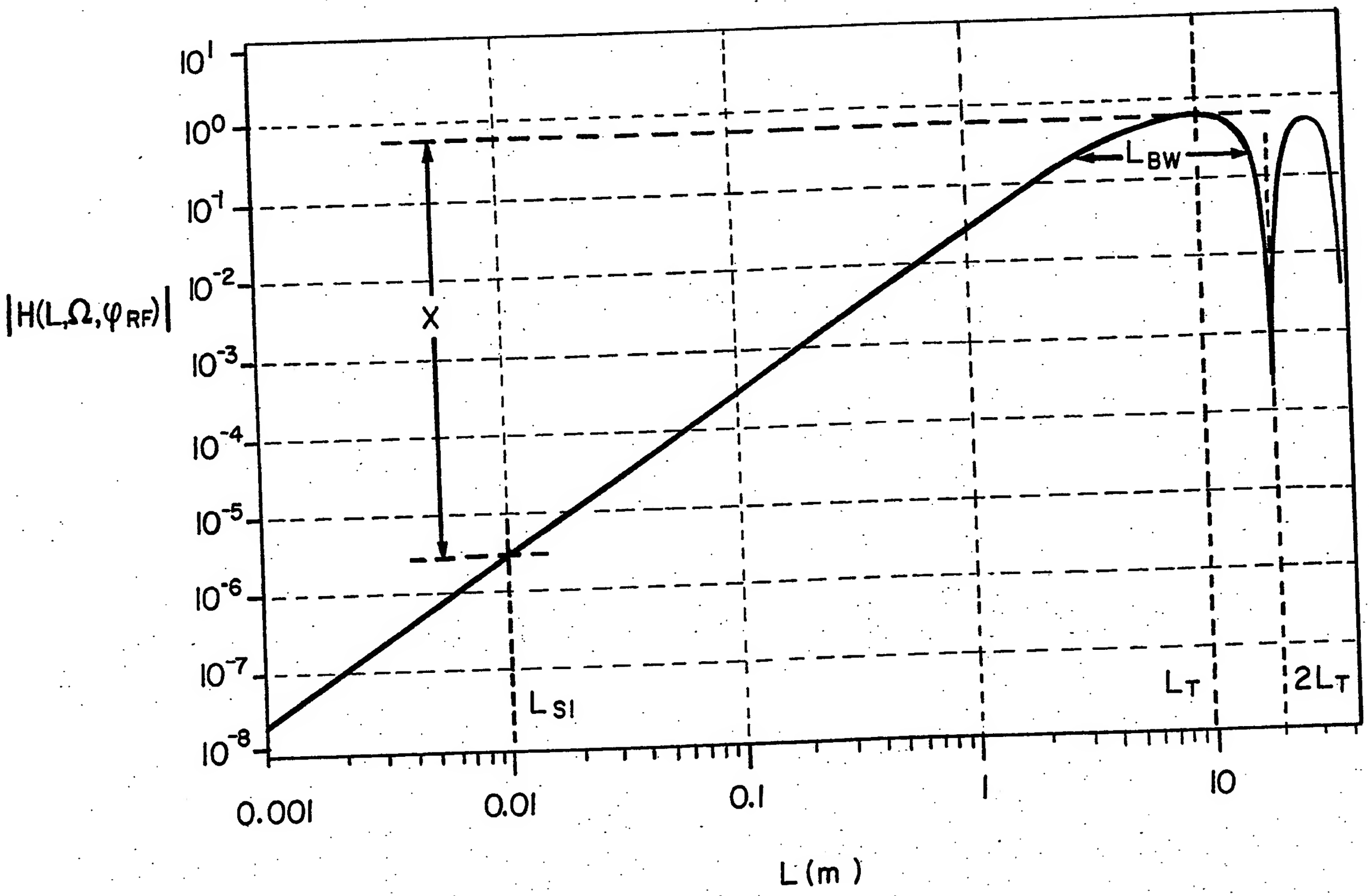
$10^{1}$
$10^{0}$
$10^{-1}$
$10^{-2}$
$10^{-3}$
$10^{-4}$
$10^{-5}$
$10^{-6}$
$10^{-7}$
$10^{-8}$
$|H(L,\Omega,\varphi_{RF})|$
X
$L_{BW}$
$L_{SI}$
$L_T$
$2L_T$
0.001
0.01
0.1
1
10
L(m)

FIG. 2